

FIG. 1

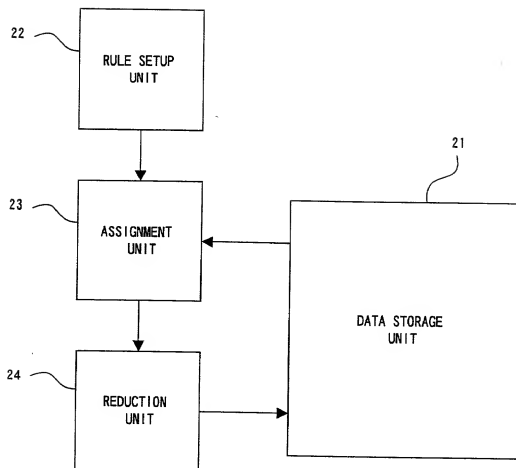


FIG. 2A

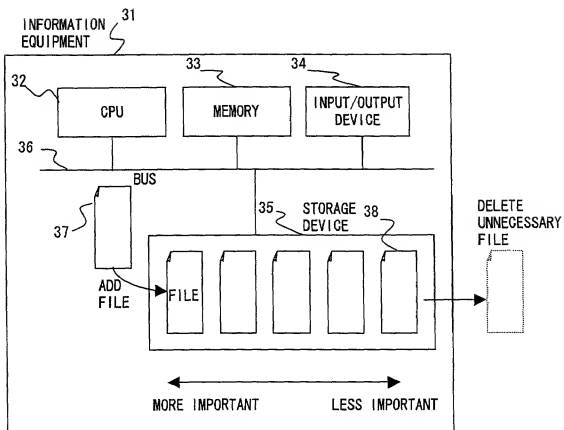


FIG. 2B

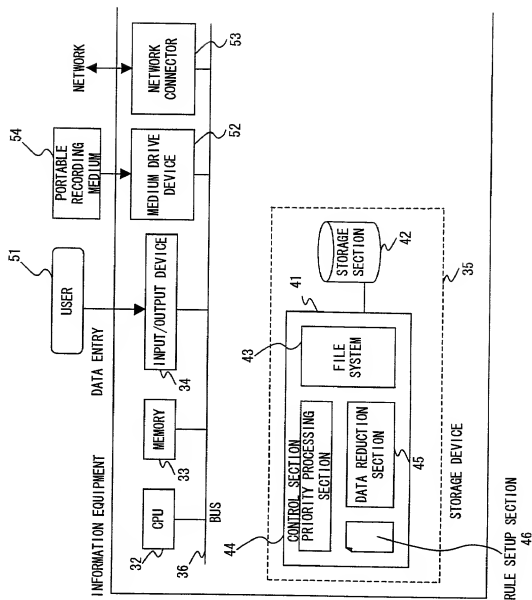


FIG. 3

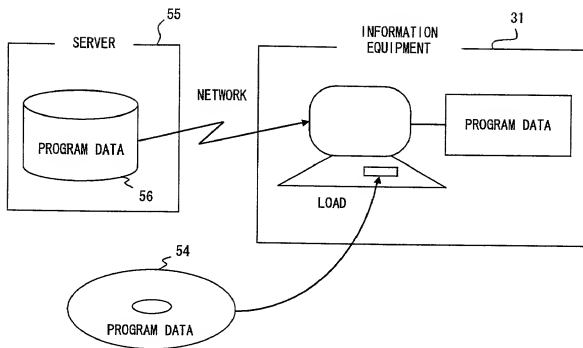


FIG. 4

| ATTRIBUTE | VALUE |
|------------------|------------|
| FILE NAME | FILE1 |
| CREATION DATE | 1999/03/27 |
| LAST ACCESS DATE | 2000/08/31 |
| FILE TYPE | TEXT |
| CAPACITY | 200KB |
| OWNER | USER1 |

FIG. 5

The diagram illustrates a file management system with three tables and their interrelationships:

- APPLICATION RANKING** (Table 61):

| APPLICATION RANKING | ITEM | PRIORITY RULES |
|---------------------|------------------|-------------------------|
| 1 | LAST ACCESS DATE | OLD : HIGH RANK |
| 2 | CREATION DATE | OLD : HIGH RANK |
| 3 | CAPACITY | LARGE : HIGH RANK |
| 4 | FILE TYPE | FILE TYPE RANKING TABLE |
| 5 | OWNER | OWNER RANKING TABLE |
- OWNER RANKING** (Table 63):

| OWNER RANKING | OWNER |
|---------------|-------|
| 1 | USER1 |
| 2 | USER2 |
| 3 | USER3 |
| 4 | USER4 |
| 5 | USER5 |
- FILE TYPE RANKING** (Table 62):

| FILE TYPE RANKING | TYPE |
|-------------------|--------------|
| 1 | MOVING IMAGE |
| 2 | STILL IMAGE |
| 3 | VOICE |
| 4 | TEXT |
| 5 | OTHERS |

Arrows indicate the following data flow:

- From **APPLICATION RANKING** (Table 61) to **OWNER RANKING** (Table 63) via arrow 63.
- From **APPLICATION RANKING** (Table 61) to **FILE TYPE RANKING** (Table 62) via arrow 62.
- From **OWNER RANKING** (Table 63) to **FILE TYPE RANKING** (Table 62) via arrow 62.

FIG. 6

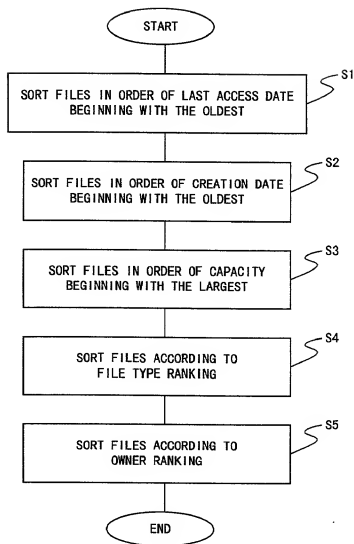


FIG. 7

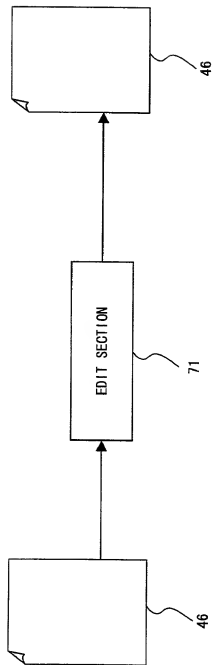


FIG. 8

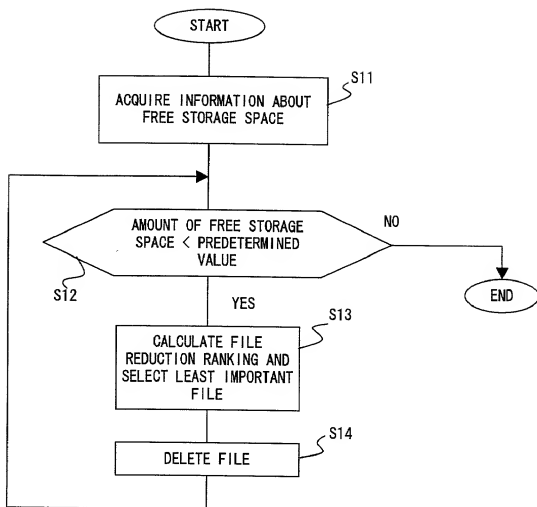


FIG. 9

| OWNER | WEIGHT |
|-------|--------|
| USER1 | 5 |
| USER2 | 4 |
| USER3 | 3 |
| USER4 | 2 |
| USER5 | 1 |

FIG. 10

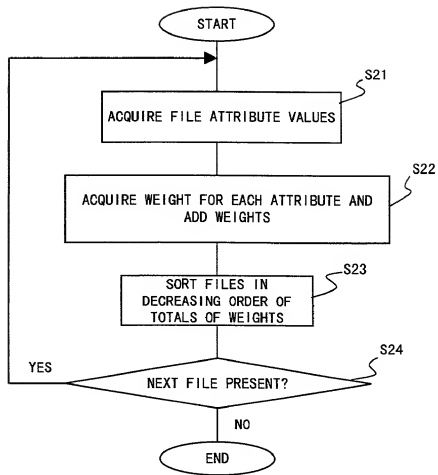


FIG. 11

| REDUCTION RANKING | FILE NAME | LAST ACCESS DATE | CREATION DATE | CAPACITY | FILE TYPE | OWNER |
|-------------------|-----------|------------------|---------------|----------|--------------|-------|
| 1 | File7 | 2000/06/23 | 2000/04/01 | 30KB | TEXT | USER5 |
| 2 | File3 | 2000/05/18 | 1999/10/29 | 350KB | VOICE | USER2 |
| 3 | File15 | 2000/05/18 | 1998/09/08 | 500KB | STILL IMAGE | USER1 |
| 4 | File1 | 2000/03/01 | 2000/05/29 | 90KB | TEXT | USER3 |
| 5 | File9 | 2000/02/03 | 1999/11/22 | 200KB | OTHERS | USER4 |
| 6 | File30 | 2000/02/03 | 1999/11/22 | 150KB | TEXT | USER4 |
| 7 | File18 | 2000/02/03 | 1998/04/06 | 750KB | MOVING IMAGE | USER5 |
| 8 | File22 | 2000/02/03 | 1998/01/15 | 20KB | TEXT | USER1 |
| 9 | File14 | 1999/11/30 | 2000/03/23 | 400KB | MOVING IMAGE | USER2 |
| 10 | File32 | 1999/11/30 | 2000/03/23 | 400KB | MOVING IMAGE | USER3 |

FIG. 13

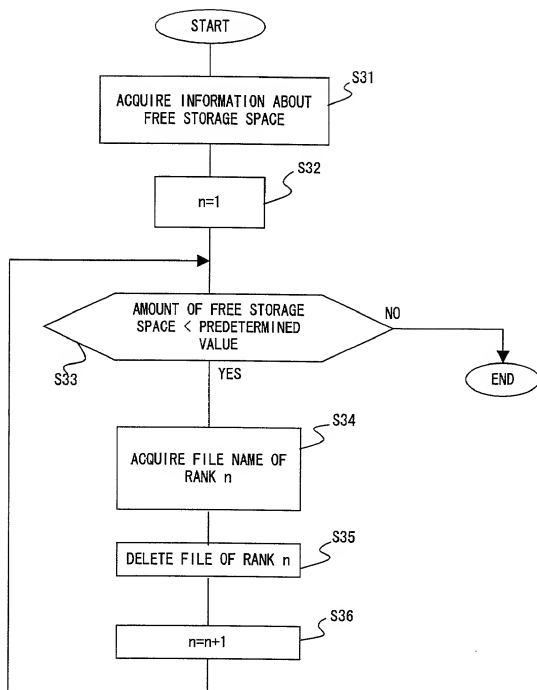


FIG. 14

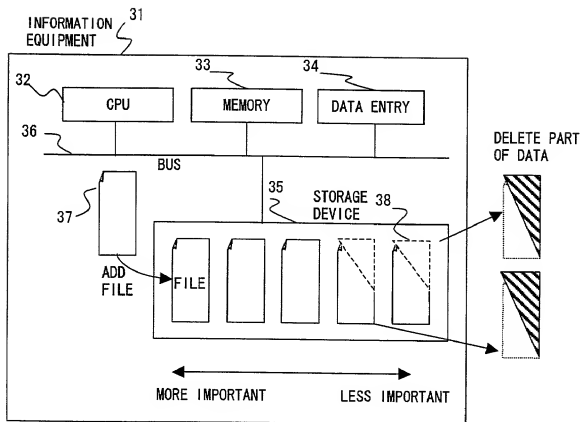


FIG. 15

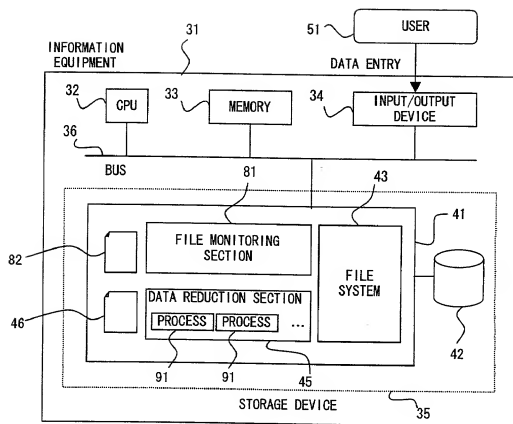


FIG. 16

| APPLICATION RANKING | PROCESSING ALGORITHM NAME | FILE TYPE |
|---------------------|--|-----------|
| 1 | REVERSIBLE COMPACTION | ALL DATA |
| 2 | IRREVERSIBLE COMPACTION C1 | IMAGE |
| 3 | IRREVERSIBLE COMPACTION C2 | VOICE |
| 4 | IMAGE INFORMATION DEGENERACY (COLOR, RESOLUTION, etc.) | IMAGE |
| 5 | SUMMARIZATION | TEXT |
| 6 | SAVING | ALL DATA |
| 7 | DELETION | ALL DATA |

FIG. 17

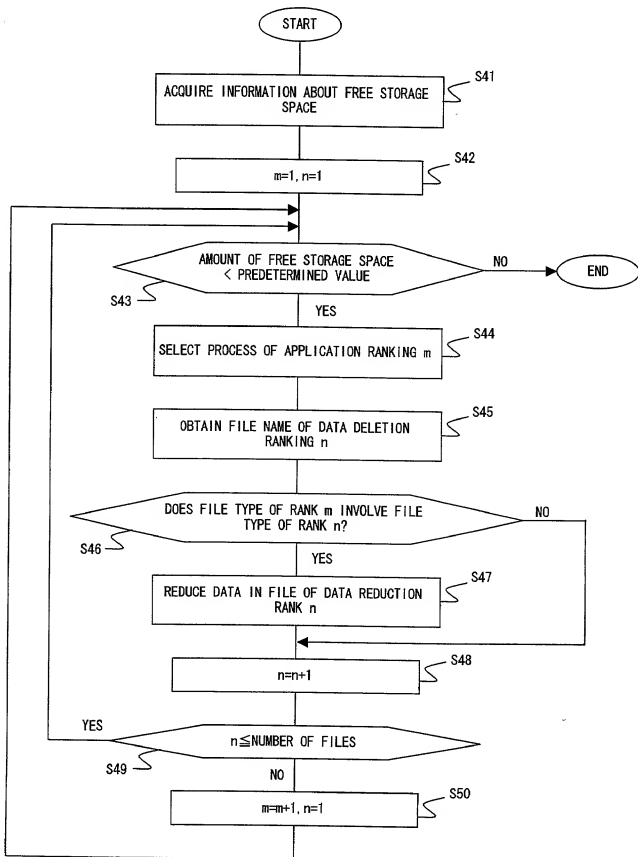


FIG. 18

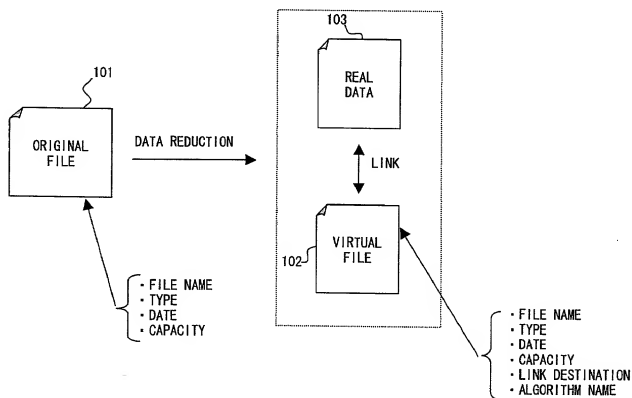


FIG. 19

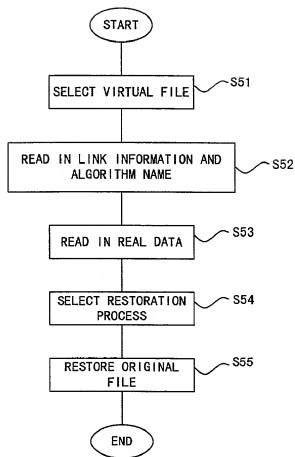


FIG. 20

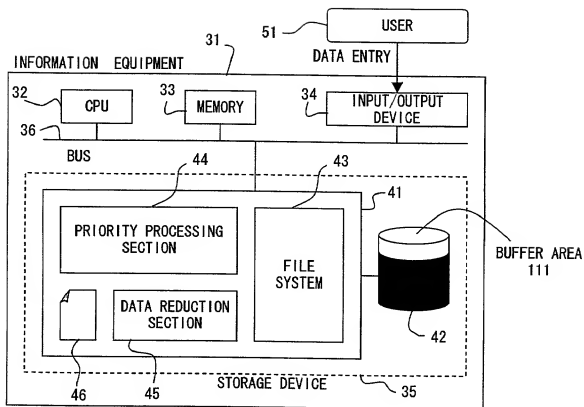


FIG. 21

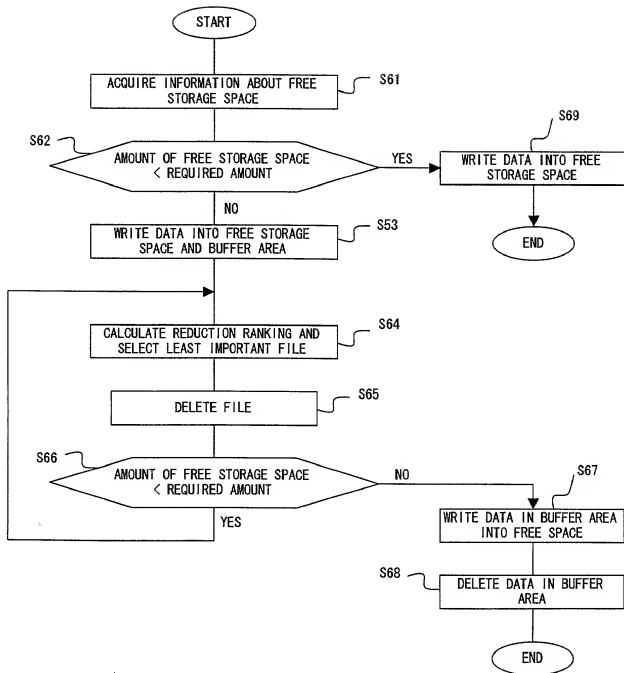


FIG. 22

| REDUCTION RANKING | FILE NAME | PROCESS P1 | PROCESS P2 | PROCESS P3 | PROCESS P4 |
|-------------------|-----------|------------|------------|------------|------------|
| 1 | File7 | 29KB/s | 28KB/s | 17KB/s | 5KB/s |
| 2 | File3 | 26KB/s | 16KB/s | 13KB/s | 9KB/s |
| 3 | File15 | 19KB/s | 22KB/s | 12KB/s | 11KB/s |
| 4 | File1 | 34KB/s | 28KB/s | 19KB/s | 6KB/s |
| 5 | File9 | 22KB/s | 16KB/s | 17KB/s | 12KB/s |
| 6 | File30 | 31KB/s | 28KB/s | 21KB/s | 7KB/s |
| 7 | File18 | 25KB/s | 19KB/s | 23KB/s | 5KB/s |
| 8 | File22 | 28KB/s | 11KB/s | 10KB/s | 15KB/s |
| 9 | File14 | 24KB/s | 29KB/s | 8KB/s | 19KB/s |
| 10 | File32 | 20KB/s | 23KB/s | 14KB/s | 9KB/s |

FIG. 23

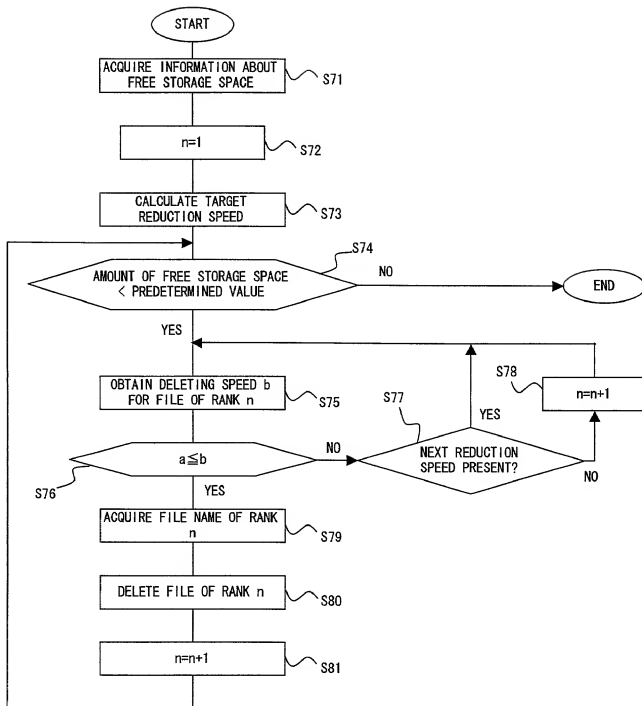


FIG. 24